

INTERNATIONAL SEARCH REPORT

International Application No

PCT/GB 03/04522

A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 F02D41/14 F02D35/02 G01M15/00

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 F02D G01M

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the International search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, PAJ

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	EP 0 904 972 A (FORD GLOBAL TECH INC) 31 March 1999 (1999-03-31) abstract	6, 10, 12, 14, 27-29
Y	paragraph '0002! - paragraph '0011! paragraph '0023! - paragraph '0035! figures 1, 2	1-5, 7-9, 11, 13
Y	GB 2 331 154 A (BOSCH GMBH ROBERT) 12 May 1999 (1999-05-12) the whole document	1-5, 7-9, 11, 13
X	EP 0 199 431 A (UNIV WAYNE STATE) 29 October 1986 (1986-10-29) page 1, line 12 - page 4, line 27 ----- -/-	8, 9

☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

* Special categories of cited documents:

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E earlier document but published on or after the International filing date

L document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)

O document referring to an oral disclosure, use, exhibition or other means

P document published prior to the International filing date but later than the priority date claimed

T later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

X document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

Y document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art

G document member of the same patent family

Date of the actual completion of the International search

23 January 2004

Date of mailing of the International search report

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C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

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Y	abstract; figures 3-6	22
X	US 5 611 311 A (TOMISAWA NAOKI) 18 March 1997 (1997-03-18) abstract column 6, line 14 - line 24	15-18, 24,25, 27-29
X	EP 0 686 761 A (MASSACHUSETTS INST TECHNOLOGY) 13 December 1995 (1995-12-13) column 3, line 3 - line 31	21,23, 27-29
Y	column 5, line 9 - line 16	22
X	US 4 562 728 A (TIMMERMAN GEORGE E) 7 January 1986 (1986-01-07) abstract; figures	26-29
A	US 4 455 980 A (SAKAMOTO SHINICHI ET AL) 26 June 1984 (1984-06-26) the whole document	1-29
A	US 6 148 795 A (HESS WERNER ET AL) 21 November 2000 (2000-11-21) the whole document	1-29

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Information on patent family members

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